

STUDENTID NO								
	-							

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2017/2018

DMA5018 - MULTIMEDIA APPLICATIONS

(For Diploma students only)

5 JUNE 2018 2:30 p.m. – 4:30 p.m. (2 Hours)

INSTRUCTIONS TO STUDENT

- 1. This question paper consists of 8 pages.
- 2. Answer ALL questions in Section A and Section B on the Answer Booklet.

SECTION A: 30 MULTIPLE CHOICE QUESTIONS (30 MARKS)

Instruction: Write your answers in the Answer Booklet.

l.	Text that has words, sections, or thoughts are linked together with clickable spots
	is called
	A. hotspot
	B. hypertext
	C. hyperlink
	D. hypermedia
2.	Specifying which font to be substitution is called
	A. alising
	B. anti-alising
	C. rasterization
	D. font mapping
3.	
	Label X Tde2
	11aca
	Label X shown in typography above is known as:
	A. leading
	B. baseline
	C. point size
	D. cap height
1.	fonts are used for headlines and bold statements. It is considered better
	for computer displays.
	A. Arial
	B. Serif
	C. Calibri
	D. Sans-serif
5.	The wider-than-tall orientation that is normal to monitors is called .
	A. landscape
	B. portrait
	C. canvas
	D. screen
5.	Which of the following is FALSE about symbols?
	A. Used to convey human emotions.
	B. Used to convey meaningful messages.
	C. Symbolic representations of objects and processes.
	D. Concentrated text in the form of stand-alone graphic constructs.
	. Line formation and a second and a

Continued...

RA

- 7. Bitmaps are an image format suited for creation of the following EXCEPT:
 - A. Complex drawings.
 - B. Photo-realistic images.
 - C. Images that require fine detail.
 - D. Graphic artists designing for the print media.
- 8. Which of the following statement are TRUE about bitmap images?
 - I. Use less memory space.
 - II. Not easily scalable and resizable.
 - III. Require a plug-in for web-based display.
 - IV. Download faster compare to vector images.
 - V. Can be converted to vector images using autotracing.
 - A. II, V
 - B. III, IV
 - C. I, III, IV
 - D. All of the above
- 9. Which of the following is the **BEST** example of lossy formats for image file compression?
 - A. GIF
 - B. PSD
 - C. PNG
 - D. JPEG
- 10. Authoring tool features as stated below refers to
 - Layering capability.
 - Image manipulating.
 - Scalable dimensions and text.
 - Edit and retouching bitmapped image.
 - A. painting tools
 - B. drawing tools
 - C. word processing tools
 - D. 3-Dimensional modeling tools

11. V	ector-drawn images is suitable to be applied in which area?
	I. Computer-aided design
]	I. 3-D animation programs
I	I. Graphic artists designing for the print media
Γ	V. Applications requiring drawing of graphic shapes
Α	. I, II
	III, IV
	I, II, IV
	All of the above
12. T	ne 3-D application feature as stated below refers to
Γ	A profile of the shape is rotated around a defined axis.
L	To profite of the shape is rotated around a defined axis.
Α	. lathing
	shaping
	modeling
	extrusion
13. A	nimation that moves objects in flat space but adds an illusion of depth through
	adowing and forced perspective is animation in space.
	. 2D
	. 2 ½ D
	. 3D
	. 4D
ע	. לנד
14 W	Thich of the following is FALSE about animation?
	Defined as the act of making something come alive.
	An object moving across or into or out of the screen.
	It is concerned with the visual or aesthetic aspect of the project.
D	. A technique in which a series of progressively different graphics is used on each
	frame of movie film.
15. W	That is the extension of an Adobe Flash project that has been compiled for
	ayback?
-	fla
	svg
	dcr
ע	swf

	Some animation programs allow the animator to create a trail between two points and then animate an object along that trail. This type of animation is called
•	A. morphing
	B. kinematics
	C. cel animation
	D. path animation
17.	When sound is digitized, the frequency with which a section of sound is taken and
	stored is known as the
	A. bit depth
	B. resolution
	C. sample size
	D. sampling rate
	Digital audio is known as when the audio quality based on quality of your recording, and not the device the end user will play the audio.
	A. speaker
	B. quantization
	C. device dependent
	D. device independent
19.	Which of these statements regarding the MIDI audio format is TRUE?
	A. It is difficult to change instruments.
	B. Spoken audio is difficult to include.
	C. Sound tracks can be edited using waveform editors.
	D. Files are generally larger than the same digital audio sound.
	Which of the following sound editing operation BEST describes the statement below?
	Edit and combine multiple tracks such as sound effects, voice-overs, music,
	etc; and merge the tracks and export in final mix to a single audio file.
	A. Multiple track
	B. Format conversion
	C. Splicing & Assembly
	D. Digital signal processing

	Which of the following multimedia elements places the highest demand on
	nardware performance?
	A. Audio
	3. Video
	C. Graphic
	D. Animation
22.	Computer displays draw the lines of an entire frame in a single pass; this technique
	s called .
	A. packing
	3. overscan
	C. streaming
	D. progressive-scan
	5. progressive somi
23.	A video signal transmitted with all the signals mixed together and carried on a single
	eable is called
	A. RGB video
	3. composite video
	C. component video
	D. multiformat video
	The video technique that allows you to choose a color or range of colors that become ransparent, allowing the video image to be visible behind those colors in the overlying image, is known by all of the following EXCEPT : A. interlacing B. blue screen C. green screen D. chroma key editing
	There are three analog broadcast video standards are commonly in use around the
	world EXCEPT:
	A. Phase Alternate Line
	3. High Definition Television
	C. Sequential Color and Memory
	D. National Television Standards Committee
26.	The and the are the protocols for communication on the
	Internet.
	A. Hypertext Transfer Protocol; Internet Protocol
	B. Transmission Control Protocol; Internet Protocol
	C. Uniform Resource Locators; Hypertext Transfer Protocol
	D. Hypertext Transfer Protocol; Transmission Control Protocol

5/8

Continued...

DM	٨	50	1	Q

27.	An	IP address can be exchanged with a(n)
	A.	MIME-type
	В.	usenet group
	C.	domain name
	D.	point-to-point protocol
28.	The	e amount of data expressed in terms of bits per second is referred to as
	<u>A.</u>	bps
		speed
		packets
		bandwidth
29.	We	b pages are written in
		MIME
	В.	HTML
	C.	TCP/IP
	D.	JAVA
30.	Wh	ich of the following services is provided by Internet?
	I.	
	II.	Gopher
	III.	*
	IV.	Telnet
	V.	
	VI.	MUD

- B. I, II, III, IV
- C. III, IV, V, VI
- D. All of the above

ŖΑ

SECTION B: 5 STRUCTURED QUESTIONS (70 MARKS)

Instruction: Write your answers in the Answer Booklet.

QUESTION 1 (15 MARKS)

a) Explain THREE (3) types of character set and give an example for each of them.

[9 marks]

b) Explain the use of image editing programs in producing a multimedia project.

[4 marks]

c) List TWO (2) 3-D animation drawing and rendering tools.

[2 marks]

QUESTION 2 (15 MARKS)

a) Explain cel animation technique.

[8 marks]

b) Discuss the following terminology in animation:

i) Kinematics

[2 Marks]

ii) Inverse kinematics

[2 Marks]

c) Discuss and identify the difference between computer animation and the traditional way creating an animation. [3 marks]

QUESTION 3 (10 MARKS)

a) Discuss digital audio.

[5 marks]

b) Calculate the audio file size in *Megabytes* of 2.5 minutes, 2 bytes, 44.1kHz mono music.

[5 marks]

QUESTION 4 (15 MARKS)

a) Explain codec.

[3 marks]

b) Calculate the video file size in gigabytes.

[12 marks]

Duration	Frame Rate	Frame Size	Color Depth
78 minutes	30 fps	800 x 400	16

Continued...

QUESTION 5 (15 MARKS)

a) Explain bottleneck.

[1 mark]

b) Discuss FOUR (4) ways to avoid bandwidth bottleneck.

[8 marks]

c) Explain how data are sent over the internet.

[6 marks]

End of Page.